

MATERIAL SAFETY DATA SHEET



1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name **STEPAN C-25**

Manufacturer Stepan Company
22 West Frontage Road
Northfield, IL 60093 USA

Telephone Numbers - 24 Hour Emergency Assistance

Medical	800-228-5635
Chemtrec	800-424-9300
Chemtrec Int'l	703-527-3887

Telephone Numbers - General Assistance

General	(847) 446-7500
---------	----------------

Product Class Methyl esters

Product Number 0725

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percent
Decanoic acid, methyl ester	110-42-9	35 - 42 %
Methyl Caprylate	111-11-5	54 - 60 %

3 HAZARDS IDENTIFICATION

Emergency Overview

Clear liquid,

Caution! Combustible

May cause irritation to the eyes, skin, and respiratory system.

Health Effects: Eyes

This product may cause irritation to the eyes.

Health Effects: Skin

Prolonged and/or repeated contact may cause irritation and redness.

Health Effects: Inhalation

Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Health Effects: Ingestion

Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

4 FIRST AID MEASURES

Eyes

Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.

Skin

For skin contact flush with large amounts of water. If irritation persists, get medical attention. Immediately take off all contaminated clothing. Wash contaminated clothing before reuse.

Inhalation

If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion

If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

5 FIRE FIGHTING MEASURES

Flash Point (75 °C), 167 F PMCC

OSHA Flammability Classification Combustible IIIA

Fire and Explosion Hazards

Slight fire hazard.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment / Instructions

Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES

Emergency Action:

Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Large Spills: Dike ahead of liquid spill for later disposal. Prevent entry into waterways, sewers, basements or confined areas.

Surfaces may become slippery after spillage.

7 HANDLING & STORAGE

Handling Procedures

Avoid contact with skin and eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage Procedures

Keep this material in a cool, well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques. Product may solidify or separate below room temperature.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Use local exhaust ventilation.

Personal Protective Equipment: Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

Personal Protective Equipment: Skin

Wear suitable protective clothing. Use impervious gloves.

Personal Protective Equipment: Respiratory

If vapors are present or irritation is experienced, NIOSH approved respiratory protection for organic vapors should be worn.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

9 PHYSICAL & CHEMICAL PROPERTIES

Flash Point	(75 °C), 167 F PMCC
Boiling Point	(100 °C), 212 F
Specific Gravity	(7.238 lb/gal), 0.87 g/ml
Melting Point	(-22 °F), -30 C
Percent Volatile	98 % (Methyl Ester, < C12)
Vapor Pressure	Not Determined or Unknown
Vapor Density	Estimated heavier than air.
Viscosity	2 cps @ 25 C
Evaporation Rate	Estimated slower than ethyl ether.
Solubility in Water	Insoluble
Freezing Point	(-30 °C), -22 F

Appearance and Odor

Clear liquid,

10 STABILITY & REACTIVITY

Chemical Stability

Stable under normal conditions.

Conditions to Avoid

Keep away from heat, ignition sources and incompatible materials.

Incompatibility

This product may react with strong oxidizing agents, alkalies.

Hazardous Decomposition

Methanol may be evolved if hydrolyzed or saponified.

Hazardous Polymerization

Will not occur.

11 TOXICOLOGICAL INFORMATION

Carcinogenicity

Not available.

12 ECOLOGICAL INFORMATION

Ecotoxicity

No data available on finished product.

13 DISPOSAL CONSIDERATIONS

Disposal Instructions

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

14 TRANSPORT INFORMATION

DOT Proper Shipping Name Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

15 REGULATORY INFORMATION

Ingredient Name	CAS Number	Percent
Decanoic acid, methyl ester	110-42-9	35 - 42 %
Methyl Caprylate	111-11-5	54 - 60 %

Inventories

All components of this product are listed on the following inventories: U.S.A.(TSCA), Canada(DSL), Europe(EINECS/ELINCS/Polymer/NLP), Japan(ENCS), Australia(AICS), Korea(ECL), Philippines(PICCS)China (EICS),

There is no calculable reportable quantity (RQ) for this product.

16 OTHER INFORMATION

Disclaimer

Disclaimer: Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be held liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.

HAZARD RATINGS	HMIS	NFPA
Health	1	1
Flammability	2	2
Reactivity	0	0
PPE	X	

Completed On	6/17/04	Replaces Sheet Dated	03/19/2004
Completed By	Product Safety & Compliance		